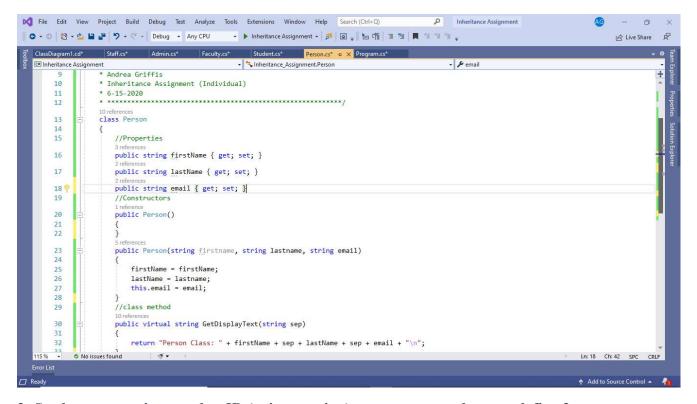
Assignment: Inheritance Assignment (Individual)

Complete the Person (base), Student (derived), Faculty (derived), Admin (derived), Staff (derived) Person properties - firstName, lastName, email (type string)

Person method - PersonWrite



2- Student properties - studentID (private string), use a getter and setter, define 2 constructors Student method - StudentWrite

```
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                                          Student.cs* → × Person.cs
                 - Ø Student()
                 * Andrea Griffis
                 * Inheritance Assignment (Individual)
      10
                 * 6-15-2020
                 11
      12
                 class Student : Person
      14
                    //addtl property for this class onlyy
      15
                    public string _studentID { get; set; }
                    //constructors
                    public Student()
      20
      21
                    public Student(string firstname, string lastname, string email, string studentID) :
                        base(firstname, lastname, email)
                        this._studentID = studentID;
                    public string StudentWrite()
                        return "Student Class: " + base.GetDisplayText("//");
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```

3- Faculty properties - facultyID (private string), use a getter and setter, define 2 constructors Faculty method - FacultyWrite

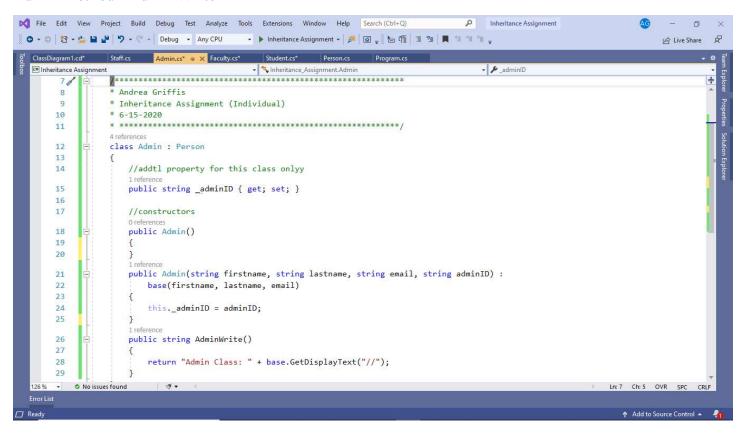
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  ClassDiagram1.cd*
                 Staff.cs Admin.cs Faculty.cs
                                                   Student.cs* + × Person.cs Program.cs
   C# Inheritance Assignment
                                                  → Nheritance_Assignment.Student

    ♥ Student()

         8
                   * Andrea Griffis
                   * Inheritance Assignment (Individual)
         9
        10
                   * 6-15-2020
                   11
        12
                   class Student : Person
        13
                       //addtl property for this class onlyv
        14
        15
                       public string _studentID { get; set; }
        16 8
        17
                       //constructors
                       public Student()
        18
        19
        20
                       public Student(string firstname, string lastname, string email, string studentID) :
        21
        22
                           base(firstname, lastname, email)
        23
        24
                           this._studentID = studentID;
        25
        26
                       public string StudentWrite()
        27
                           return "Student Class: " + base.GetDisplayText("//");
        28
        29
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☐ Ready
```

4- Admin properties - adminID (private string), use a getter and setter, define 2 constructors

Admin method - AdminWrite



5- Staff properties - staffID (private string), use a getter and setter, define 2 constructors Staff method - StaffWrite

```
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                 Staff.cs* → X Admin.cs* Faculty.cs*
                                                      Student.cs*

☐ Inheritance Assignment

    * Inheritance_Assignment.Staff

                                                                                                      - StaffID
                                                                                                                                                         +
                    * Andrea Griffis
        8
        9
                    * Inheritance Assignment (Individual)
        10
                    * 6-15-2020
                    * ***********************************
        11
                    class Staff : Person
        12
        13 0
                    {
                        //addtl property for this class only
                        public string _staffID { get; set; }
        15
        16
       17
                        //constructors
        18
                        public Staff()
        19
        20
                        public Staff(string firstname, string lastname, string email, string staffID) :
        21
        22
                            base(firstname, lastname, email)
        23
                            this._staffID = staffID;
        24
        25
        26
                        public string StaffWrite()
        27
        28
                            return "Staff Class: " + base.GetDisplayText("//");
        29
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```

Initialize each of the classes, and print out the contents of each class to show inheritance.

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  ClassDiagram1.cd*
                                                    Student.cs* Person.cs Program.cs* + X
   m Inheritance Assignment

    * Inheritance_Assignment.Program

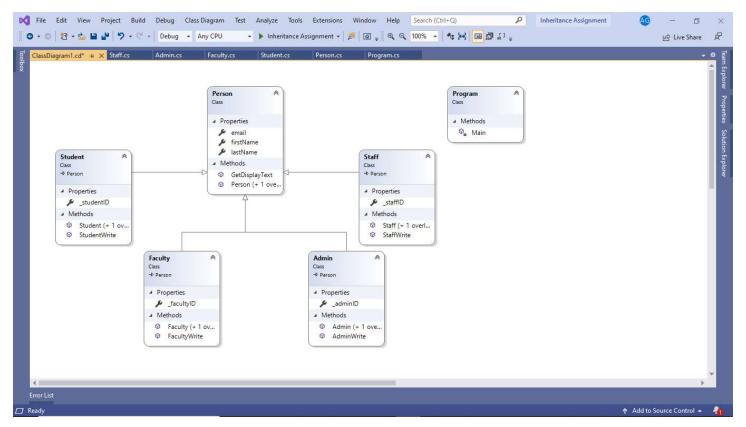
    ♥ Main(string[] args)

                          ****Andrea Griffis ******
                                                                                                                                                    ÷
                        * ****Inheritance Assignment (Individual)
                        9
                        static void Main(string[] args)
        11
                            Person person1 = new Person();
        12
        13
                           Console.WriteLine(person1.GetDisplayText("."));
        14
        15
                            Person person2 = new Person("PersonFN", "PersonLN", "PersonEmail");
        16
                           Console.WriteLine(person2.GetDisplayText("--"));
        17
                           Student student1 = new Student("StudentFN", "StudentLN", "Student1@email.com", "12345");
        18
        19
                           Console.WriteLine(student1.GetDisplayText("."));
                           Console.WriteLine(student1.StudentWrite());
        20
        21
                           Admin admin1 = new Admin("AdminFN", "AdminLN", "Admin1@email.com", "54321");
        22
        23
                           Console.WriteLine(admin1.GetDisplayText("."));
        24
                           Console.WriteLine(admin1.AdminWrite());
        25
        26
                            Faculty faculty1 = new Faculty("FacultyFN", "FacultyLN", "Faculty1@email.com", "6789");
                           Console.WriteLine(faculty1.GetDisplayText("."));
        27
        28
                            Console.WriteLine(faculty1.FacultyWrite());
        29
        30
                            Staff staff1 = new Staff("StaffFN", "StaffLN", "Staff1@email.com", "9876");
                            Console.WriteLine(staff1.GetDisplayText("."));
        31
        32
                            Console.WriteLine(staff1.StaffWrite());
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            No issues found
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☐ Ready
```

Inheritance Assignment

đ

Create a Class Diagram for your program using VS Class Diagram/Designer feature. (10 pts)



```
Microsoft Visual Studio Debug Console
                                                                                                                        X
                                                                                                                  Person Class: ..
Person Class: --PersonLN--PersonEmail
Person Class: .StudentLN.Student1@email.com
Student Class: Person Class: //StudentLN//Student1@email.com
Person Class: .AdminLN.Admin1@email.com
Admin Class: Person Class: //AdminLN//Admin1@email.com
Person Class: .FacultyLN.Faculty1@email.com
Faculty Class: Person Class: //FacultyLN//Faculty1@email.com
Person Class: .StaffLN.Staff1@email.com
Staff Class: Person Class: //StaffLN//Staff1@email.com
C:\Users\Student.LABTOPG011860\source\repos\Inheritance Assignment\Inheritance Assignment\bin\Debug\netcoreapp3.1\Inheri
tance Assignment.exe (process 9764) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```